

SD62

Base Station

1022AD01B



User's Manual

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Before You Begin

IMPORTANT: This is a draft document. All content is subject to change without notice.

This section provides you with safety information, technical support information, and sources for additional product information.

Safety Information

Your safety is extremely important. Read and follow all warnings and cautions in this document before handling and operating Intermec equipment. You can be seriously injured, and equipment and data can be damaged if you do not follow the safety warnings and cautions.

This section explains how to identify and understand dangers, warnings, cautions, and notes that are in this document. You may also see icons that tell you when to follow ESD procedures and when to take special precautions for handling optical parts.



Warning

A warning alerts you of an operating procedure, practice, condition, or statement that must be strictly observed to avoid death or serious injury to the persons working on the equipment.



Caution

A caution alerts you to an operating procedure, practice, condition, or statement that must be strictly observed to prevent equipment damage or destruction, or corruption or loss of data.



Note: Notes either provide extra information about a topic or contain special instructions for handling a particular condition or set of circumstances.

Global Services and Support

Warranty Information

To understand the warranty for your Intermec product, visit the Intermec web site at www.intermec.com and click **Support > Returns and Repairs > Warranty**.

Web Support

Visit the Intermec web site at www.intermec.com to download our current manuals (in PDF).

Visit the Intermec technical knowledge base (Knowledge Central) at www.intermec.com and click **Support > Knowledge Central** to review technical information or to request technical support for your Intermec product.

Send Feedback

Your feedback is crucial to the continual improvement of our documentation. To provide feedback about this manual, please contact the Intermec Technical Communications department directly at TechnicalCommunications@intermec.com.

Telephone Support

In the U.S.A. and Canada, call **1-800-755-5505**.

Outside the U.S.A. and Canada, contact your local Intermec representative. To search for your local representative, from the Intermec web site, click **About Us > Contact Us**.

Who Should Read This Manual

This guide is for the person who is responsible for installing, configuring, and maintaining the SD62 base station.

This guide provides you with information about the features of the SD62 base station, and how to install, configure, operate, maintain and troubleshoot it.

Before you work with the SD62 base station, you should be familiar with your network and general networking terms, such as IP address.

Related Documents

The Intermec web site at www.intermec.com contains our documents (as PDF files) that you can download for free.

To download documents

- 1 Visit the Intermec web site at www.intermec.com.
- 2 Click the **Products** tab.
- 3 Using the **Products** menu, navigate to your product page. For example, to find the CN3 computer product page, click **Computers > Handheld Computers > CN3**.
- 4 Click the **Manuals** tab.

If your product does not have its own product page, click **Support > Manuals**. Use the **Product Category** field, the **Product Family** field, and the **Product** field to help you locate your documentation.

Patent Information

For patent information, please refer to www.honeywellaidc.com/patents.

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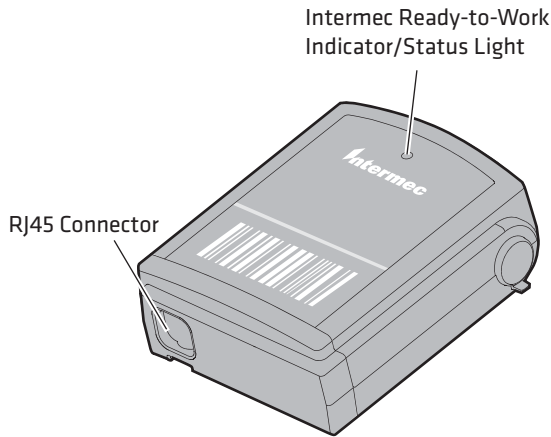
About the SD62 Base Station

This chapter provides an overview of the SD62 Base Station. This chapter covers these topics:

- **About the SD62 Base Station**
- **Power the SD62**
- **Understand the Light**
- **Understand the Beeps**
- **Required Accessories**

About the SD62 Base Station

The SD62 Base Station is used to connect up to seven Intermec cordless Bluetooth™ scanners to a non-Bluetooth host device. Data is transmitted from the scanner to the host via the SD62 Base Station.



SD62 Base Station

Power the SD62

The SD62 is powered through the cable connected to a host device. Depending on which cable you are using, power comes from either the host device or the external power supply. See [Connect the SD62 System](#) for details on Connections.

Understand the Light

The status light/Intermec Ready-to-Work indicator on the SD62 flashes green, red and/or blue depending on the status of the SD62 and the bluetooth connection. The Ready-to-Work indicator and status light are located in the same place but use different colors.

Intermec Ready-to-Work Indicator

The blue Intermec Ready-to-Work™ indicator is located on top of the base station and is used to indicate the status of the Bluetooth connection.

Blue Intermec Ready-to-Work Indicator Description

Light State	What It Means
On	A Bluetooth connection has been established with one or more scanners. The SD62 is ready to receive data from the scanner(s).
Off	A Bluetooth connection has not been established.



Note: By default the Ready-to-Work light is blue but you can change the color using EasySet (**Operating settings > Beeps/LEDs > Ready-to-Work LED**)

Status Light

The status light flashes green or red and is used to communicate information on data transmission.

Default Status Light Descriptions

Light State	What It Means
Green flashes once	Power up.
Green on for 2 seconds	Data has been successfully transmitted to the host
Green flashes 2 times	A configuration bar code was successfully read

Default Status Light Descriptions

Light State	What It Means
Series of green flashes	Base station firmware download complete
Red on for 2 seconds	Transmission error OR Configuration bar code was not accepted
Red flashing	Base station firmware download in progress
Orange flashing	Preparing for scanner firmware download through the base
Orange on	Scanner firmware download through base in progress

Understand the Beeps

The SD62 also beeps to give you audio feedback when performing some functions. For example, you hear a beep each time a connected scanner scans a valid bar code.

Beep Sequence	What It Means
One beep	Scanner has successfully read a bar code
Two beeps	Power-up OR Scanner has successfully read a configuration bar code
Single high beep	Data has been successfully transmitted to the host
Six very fast beeps	Transmission error OR Configuration bar code was not accepted
Series of beeps	Base station firmware download complete

Required Accessories

You will need one or more cables for your SD62 depending on the interface you are using. Some cables require the use of a power supply and a power cord.

SD62 Cable List

Cable	Part Number
USB cable (6.5 ft)	SR31-CAB-U001
USB cable with power jack (6.5 ft)	SR31-CAB-U002
Keyboard Wedge Y-cable with PS2 connector and power jack (6.5 ft)	SR31-CAB-K001
RS-232 cable with female DB9 connector and power jack (6.5 ft)	SR31-CAB-R001
Wand Emulation cable	SR31-CAB-W001

SD62 Power Supply

Power Supply	Part Number
Intermec 5V universal power supply	851-089-xxx



Note: You will also need a power cord to plug in the power supply. The power cord is country-specific and is sold separately.

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Connect the SD62 System

The SD62 System refers to the SD62 base station and at least one connected Intermec scanner. This chapter explains how to connect the SD62 system and includes:

- **Connect the SD62 to a Host Device**
- **Connect an Intermec Scanner to the SD62**

Connect the SD62 to a Host Device

The SD62 is connected to a host device using one of the following interfaces:

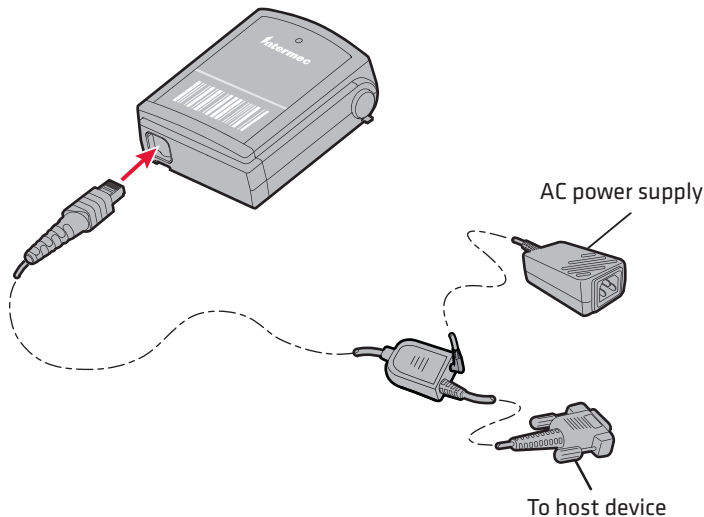
- RS-232
- USB
- Keyboard Wedge
- Wand Emulation

RS-232 Interface

Connect the SD62 to the host using the powered RS-232 cable which requires an external Intermec power supply.

To connect with an RS-232 cable

- 1 Turn on your host device.
- 2 Connect the RS-232 cable to the SD62 and to the host.



- 3 Connect the power supply to the RS-232 cable and an AC power outlet with a power cord for your country.

The SD62 is successfully connected and power is on when it emits 2 beeps and the status light flashes green 1 time.

- 4 If necessary, configure your SD62 serial parameters to match the host device (see **“RS-232 Interface Settings” on page 20**).

The default serial parameters for the SD62 are:

Baud Rate: 57600

Data Bits: 8

Parity: none

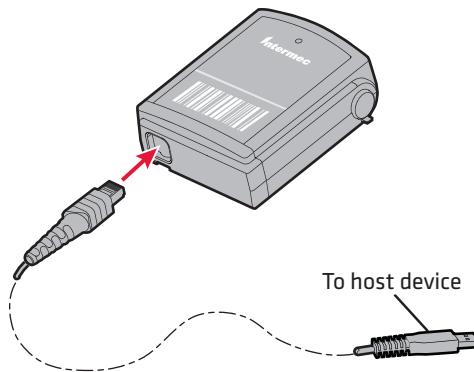
Stop Bits: 1

USB Interface

Connect the SD62 to a host using a USB cable. The default USB interface is Keyboard HID.

To connect with a USB cable

- 1 Turn on your host device.
- 2 Connect the cable to your SD62 and host device.



The SD62 is successfully connected and power is on when it emits 2 beeps and the status light flashes green 1 time.

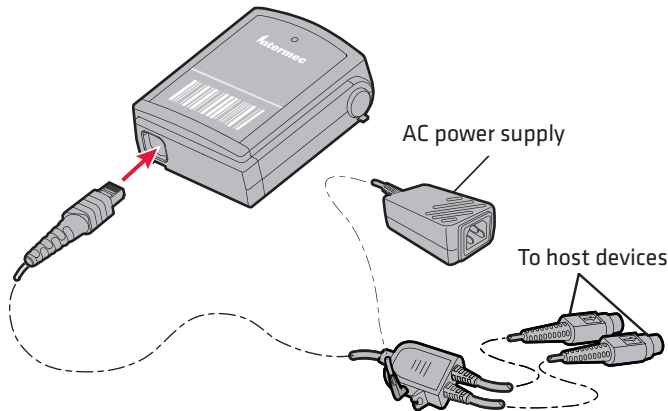
- 3 If necessary, configure your SD62 for an International keyboard. The default keyboard is North America. See **“USB/Keyboard Wedge Interface Settings” on page 17**.

Keyboard Wedge Y-Cable Interface

Connect the SD62 to a host using a USB cable. The default USB interface is Keyboard HID.

To connect with a USB cable

- 1 Turn on your host device.
- 2 Connect the cable to your SD62 and host device.



- 3 Connect the power supply (if necessary) to the keyboard wedge Y-cable and an AC power outlet.

The SD62 is successfully connected and power is on when it emits 2 beeps and the status light flashes green 1 time.

- 4 If necessary, configure your SD62 for an International keyboard. The default keyboard is North America. See [“USB/Keyboard Wedge Interface Settings” on page 17](#).

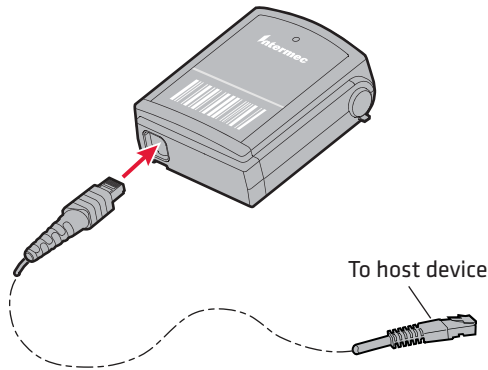
Wand Emulation

Connect the SD62 to a host using the wand emulation cable.

To connect a wand emulation cable

- 1 Turn off your host device.

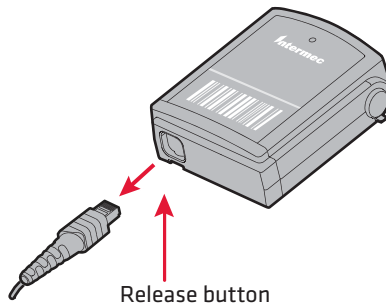
- 2 Connect the cable to your SD62 and host device.



- 3 Turn on your host device.
The SD62 is successfully connected and power is on when it emits two beeps and the status light flashes green 1 time.
- 4 Configure your SD62 wand emulation parameters if necessary (see **“Wand Emulation Interface Settings” on page 22**).

Remove a Cable

Remove the cable by pressing the release button located on the SD62 Base Station under the RJ45 Connector. Press the button firmly and gently pull out the cable.



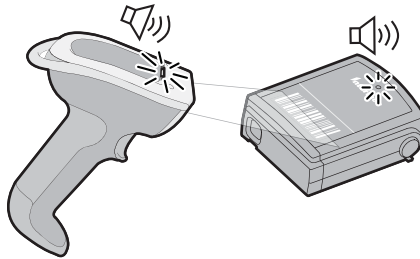
Removing a Cable: Press the release button firmly and gently pull out the cable.

Connect an Intermec Scanner to the SD62

You can connect up to seven Intermec Bluetooth scanners to the SD62 Base Station.

To connect up to 7 scanners

- 1 Connect the SD62 base station to a host device using the correct cable for your interface (see **“Connect the SD62 to a Host Device” on page 8**).
- 2 With each scanner you want to connect, scan the **Bluetooth System Connect** bar code label on the SD62 base station and wait for the connection to be established.



The scanner beeps twice, the green status light flashes twice and the blue Intermec Ready-to-Work indicator starts blinking (may blink for a few seconds). When the scanner connects to the base station it emits a series of beeps from low to high. The blue Intermec Ready-to-Work indicator turns on and stays on for both the scanner and base station.

IMPORTANT

If you are connecting one of the following products to your SD62 Base Station (or a mix of new and legacy scanners), you will need to use the **Bluetooth Quick Connect** bar code label that is provided in the SD62 box. The following products are not compatible with the **Bluetooth System Connect** bar code located on the top of your SD62 base station:

- SF51 Cordless Scanner (all models)
- SR61B Cordless Scanner (legacy models only, see the following part numbers)

SR61BEXXXX
SR61BAXXXX
SR61BLXXXX
SR61BVXXXX

Use the Bluetooth Quick Connect bar code provided in the box and stick it on top of the Bluetooth System Connect bar code on the SD62 base station.

If you do not have the **Bluetooth System Connect** or the **Bluetooth Quick connect** bar code labels (or cannot read the one on your SD62 because of damage or other), you can create a new connection bar code using EasySet (see **“Bluetooth Connection Bar Code” on page 25**).

Out of Range Behavior

If the Bluetooth connection is lost (out of range, scanner battery too low, etc.) the scanner and base station will automatically try to reconnect once the problem is resolved (back in to range, recharge scanner battery, etc.). If you try to read a bar code while the scanner is disconnected from the base station, the scanner will emit an error beep.

No data is stored in the buffer, meaning that no data can be lost when the scanner loses connection with the base station.

Disconnect the Scanner from the SD62

To disconnect your scanner from the SD62 base station

- 1** Read the **Bluetooth Device Disconnect** bar code.

Bluetooth Device Disconnect



The scanner emits the “disconnect successful” beep sequence (series of beeps from high to low) and the Intermec Ready-to-Work indicator goes off.

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Configure the SD62 Base Station

This chapter gives information on configuring your SD62 base station. This chapter includes the following:

- **Basic Setup with Configuration Bar Codes**
- **Configure Your System with EasySet**
- **Bluetooth Connection Bar Code**

Basic Setup with Configuration Bar Codes

Once you have connected your base station to your host and established a bluetooth connection with an Intermec scanner, you can configure your base station via the scanner. The scanner scans the configuration bar code and sends the information to the base station.

This section provides configuration bar codes for a basic setup. More configuration options are available with EasySet, see **“Configure Your System with EasySet” on page 23**.

All default values are marked with (*).



Note: You must have at least one Intermec Bluetooth scanner connected to the SD62 Base Station to scan the configuration bar codes in this section. See **“Connect an Intermec Scanner to the SD62” on page 12**.

Reset Factory Defaults

You can reset the factory defaults of the base station or the scanner.

When resetting your scanner or base station, the Bluetooth connection is lost. Make sure you re-establish the Bluetooth connection before ready any other configuration bar codes.

Reset factory defaults - Base station



Reset factory defaults - Scanner



USB/Keyboard Wedge Interface Settings

Use these configuration bar codes to set up your keyboard and USB cable mode.

International Keyboard

Select the keyboard for your country. Additional keyboards are available in EasySet, see [“Configure Your System with EasySet” on page 23](#).

North American Windows (*)



French Windows



French Canadian Windows 95/98



French Canadian Windows XP/2000



German Windows



Spanish Windows



Italian Windows



UK English Windows



Japanese Windows



Brazilian Portuguese Windows



Czech Republic Windows



Slovak Windows



Hungarian 101-key



USB Cable Mode

By default the USB cable mode is set to Keyboard HID. However you can also set up your base station to use the following USB cable modes:

- HID POS
- IBM POS Hand Held
- IBM POS Table Top
- Virtual COM

USB Keyboard HID (*)



HID POS



IBM POS Hand Held



IBM POS Table Top



USB Virtual COM



USB Virtual COM Port Driver

For a first time setup when using the **USB Virtual COM** cable mode you will need to install the USB Virtual COM Port (VCP) driver. There are two ways to do this:

- Method 1: Use the **Virtual COM driver installation** function in EasySet (this is the easiest way to install the driver).
- Method 2: Download and install the USB Virtual COM driver installation package from the Intermec web site

Method 1: Use EasySet to install the USB virtual COM port driver

- 1 If it is not already installed on your host PC, download and install the **latest version of EasySet** (we recommend that you install it in the default location proposed by the installer).
- 2 Start EasySet and select **Options > Virtual COM driver installation**.

If the VCP Installer window proposes options to **Repair** or **Remove** the VCP Installer, the driver is already installed - click **Cancel** to exit the installation procedure.

If the VCP Installer window offers to guide you through the installation, click **Next** and **Install** each time as requested to complete the VCP driver installation.

Method 2: Download and install the USB virtual COM port driver from the Intermec web site

- 1 Go to the **Intermec Knowledge Central** page.
- 2 In the search box type “SD62 USB driver” and click **Search**.

- 3** Download the driver installation package (choose the package that is compatible with your PC operating system if applicable).
- 4** Follow the installation procedure provided with the driver package on the Knowledge Central web page.

RS-232 Interface Settings

Use these configuration bar codes to set up the RS-232 interface.

Baud Rate

38400



57600 (*)



115200



128000



230400



256000



460800



Data Bits

7



8 (*)



Parity

None (*)



Even



Odd



Stop Bits

1 (*)



2



Wand Emulation Interface Settings

Use these configuration bar codes to set up the wand emulation interface.

Logic Level Parameters

Logic Level during transmission bar = 0, space = 1



Logic level during transmission bar = 1, space = 0



Configure the Postamble

The default postamble is <CR> <LF> for most Intermec scanners and None for the base station. For certain applications or when using USB HID Keyboard you may need to change this setting. You can set a postamble for the scanner as well as for the base station.

Data are transmitted as follows with a postamble and/or preamble:

[Preamble - Base station][Preamble - Scanner][Data][Postamble - Scanner][Postamble - Base station].

Postamble configuration bar codes - Scanner

Use the following configuration bar codes to change the default postamble at scanner level.

Carriage Return + Line Feed (*) - Scanner



None - Scanner



Carriage Return - Scanner



Enter - Scanner



Postamble configuration bar codes - Base Station

Use the following configuration bar codes to change the default postamble at base station level.

Carriage Return + Line Feed - Base station



None (*) - Base station



Carriage Return - Base station



Enter - Base station



Configure Your System with EasySet

EasySet is an Intermec configuration application used to configure Intermec scanning products. You can use EasySet to configure the SD62 base station and your Intermec scanner(s). EasySet provides you with two ways to configure your products:

- Online setup—send configuration commands from EasySet directly to the product.
- Offline setup—send configuration commands to a bar code setup sheet, print the setup sheet and use a scanner to scan the bar codes.

EasySet is available on the Intermec web site at www.intermec.com/EasySet. Simply download and install.



Note: Use the SD62 System product in EasySet when configuring a system(SD62 base station + Intermec scanner). If you are connecting your Intermec scanner to a different device, use the command file specific for the scanner. See your scanner’s documentation for more information.

Online Setup with EasySet

Online setup with EasySet is only available if you are using an RS-232 cable or a USB cable.

To configure your system online by sending commands from EasySet

- 1 Connect the base station to a host PC using an RS-232 or USB cable and set connection parameters if necessary.
- 2 Start EasySet. The first time you start EasySet, the **Select product** dialog box appears.

If the **Select product** dialog box does not appear, choose **Product** > **Select** or click on the product icon in the upper left corner.

- 3 Select your product.
- 4 Select **Communication** > **Select communication interface**. The **Device Selection** dialog box appears.
- 5 Select the communication interface that you are using for your system and click **OK**.
- 6 EasySet connects to your system and retrieves the current configuration. These configurations are indicated with a blue check mark or blue text. Open the folders to find the configuration commands needed. Double click each command to send it to the system.



Note: The scanner does not beep when you send configuration commands online from EasySet. When you select **Disconnect** from the **Communication** menu in Easyset, the base station reboots. If you have a scanner connected to the base station, it disconnects then reconnects to it.

Offline Setup with EasySet

To configure your system offline by scanning bar codes

- 1 Start EasySet. The first time you start EasySet, the **Select product** dialog box appears.

If the **Select product** dialog box does not appear, choose **Product** > **Select** or click on the product icon in the upper left corner.

- 2 Select your product.
- 3 Open the folders to find the configuration commands needed. Double-click each command to send each command to the setup sheet.
- 4 Click on the print icon to print out the setup sheet and scan the commands.

Bluetooth Connection Bar Code

The Bluetooth System Connect bar code label on your base station is used to establish a Bluetooth connection between the base station and an Intermec scanner (see [“Connect an Intermec Scanner to the SD62” on page 12](#)). If for some reason you cannot successfully scan the Bluetooth System Connect bar code (damaged or other) you can create a new bar code using EasySet.

IMPORTANT

If you are connecting one of the following products to your SD62 Base Station, you will need to use the **Bluetooth Quick Connect** bar code label that is provided in the SD62 box. The following products are not compatible with the **Bluetooth System Connect** bar code located on the top of your SD62 base station:

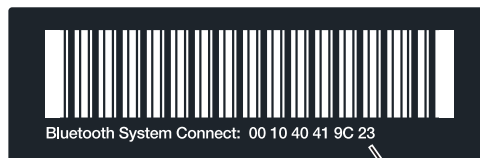
- SF51 Cordless Scanner (all models)
- SR61B Cordless Scanner (legacy models only, see the following part numbers)
 - SR61BEXXXX
 - SR61BAXXXX
 - SR61BLXXXX
 - SR61BVXXXX

Use the Bluetooth Quick Connect bar code provided in the box and stick it on top of the Bluetooth System Connect bar code on the SD62 base station.

If you do not have the Bluetooth Quick Connect bar code you can also use EasySet to create a new one (see **“Create a Bluetooth Quick Connect Bar Code in EasySet”** on page 27).

Create a Bluetooth System Connect Bar Code in EasySet

To create a connection bar code you will need the Bluetooth device address (BDA) of your SD62. If you have the old label the BDA is written on the bar code label.



Bluetooth Device Address (BDA)

Bluetooth System Connect Bar Code

If you do not have the bar code label you will need to use EasySet to get the BDA of your SD62.

To get the Bluetooth Device Address of the SD62

- 1 Connect your SD62 base station to a PC with EasySet installed.
- 2 Start EasySet and select the SD62SYS product (**Product > Select > Wireless System > SD62 System**).
- 3 Open the **Communication > Select communication interface** window, select the interface corresponding to your SD62 base station and click **OK** to confirm.

EasySet connects to the base station and retrieves the current configuration indicated by blue check marks or blue text next to the commands in the EasySet commands window (repeat step 3 if the connection is not established).

- 4 Open the **Configuration modes and utilities > Base station** folder and note the BDA string displayed next to the **Get Bluetooth device address** command.

To create a Bluetooth System Connect bar code

- 1** In EasySet, select the product you want to connect to the SD62 (i.e. **Product > Select > Handheld scanners > SF51**).
- 2** Open the **Interface > Bluetooth > Bluetooth System Connect** folder double-click the **Compose BT address** command.
- 3** Enter the base station's Bluetooth Device Address (BDA) you noted in the previous procedure and click **OK** to confirm.

A Bluetooth System Connect bar code is created containing the BDA of your SD62.
- 4** You may be able to read the connection bar code on the screen or you can print it out as a label and stick it on your SD62 base station.

Create a Bluetooth Quick Connect Bar Code in EasySet

As stated above, the Bluetooth Quick Connect bar code is only for use when connecting an SF51 scanner or legacy SR61B scanner to the SD62.

To create a Bluetooth Quick Connect bar code

- 1** Get the Bluetooth Device Address of the SD62 (see **[“To get the Bluetooth Device Address of the SD62” on page 26](#)**).
- 2** In EasySet, select the scanner you are using (for example: **Product > Select > Handheld scanners > SF51**).
- 3** Open the **Interface > Bluetooth > Bluetooth Quick Connect (or Connect/disconnect)** folder double-click the **Compose BT address** command.
- 4** Enter the base station's Bluetooth Device Address (BDA) you noted in step 1 and click **OK** to confirm.

A Bluetooth Quick Connect bar code is created containing the BDA of your SD62.
- 5** You may be able to read the connection bar code on the screen or you can print it out as a label and stick it on your SD62 base station.

4

Troubleshoot and Maintain the SD62 Base Station

Use this section to troubleshoot and maintain your SD62 base station. This chapter includes:

- **Problems and Possible Solutions**
- **Call Product Support**
- **Upgrade the System Firmware**

Problems and Possible Solutions

If you have problems using your SD62, use this section to try to find a solution.

Problems and Possible Solutions

Problem	Possible Solution
The SD62 does not turn on.	The SD62 is not receiving power. Make sure you are using the correct cable and power supply (if necessary). When the SD62 is powered-up it emits two beeps and the status light flashes green one time.
You cannot establish a Bluetooth connection (the blue Intermec Ready-to-Work indicator is not on).	Restart the SD62 by disconnecting and reconnecting the power supply. You can also reset the factory defaults of both the SD62 and your scanner.
The SD62 cannot communicate with the host.	Make sure the cables are connected between the SD62 and the host. Make sure the SD62 is configured correctly for the interface you are using. For help see “Connect the SD62 System” on page 7.
You scan a data bar code but the SD62 does not beep and the light does not flash.	The data may still be in the process of being sent to the host. Data transmission may be slow if there is interference with Bluetooth communications or if the scanner is too far from the SD62 base station. Check the blue Ready-to-Work light to be sure that the scanner is connected to the SD62.
The Bluetooth System Connect bar code on the SD62 is damaged or missing and cannot be read by the scanner	Use the EasySet software to create a new Bluetooth System Connect bar code (see “Bluetooth Connection Bar Code” on page 25).
The scanner beeps error when trying to read the Bluetooth System Connect bar code on the SD62	Depending on the scanner you are using, you might need to use the Bluetooth Quick Connect bar code delivered with the product in the box. See “Connect an Intermec Scanner to the SD62” on page 12.

Problems and Possible Solutions

Problem	Possible Solution
The status light on the base is orange and it is performing a firmware download.	The base is stuck in firmware download mode (e.g., scanner firmware download was interrupted or there was an error). Unplug the base station power supply then plug it back in to restart the base station.

Call Product Support

To talk to an Intermec Product Support representative:

- In the U.S.A. and Canada, call **1-800-755-5505**
- Outside the U.S.A. and Canada, contact your local Intermec representative. For help, go to www.intermec.com > **About Us** > **Contact Us**.

Before you call Intermec Product Support, make sure you have the following information:

- SD62 firmware version
- SD62 sub-system version

Find Product Version Information

There are two ways to find the firmware version and sub-system version of your SD62.

- Using a connected scanner to read **Get version** bar codes
- Using EasySet in online setup mode

To get version information by reading bar codes

- 1 Connect your SD62 to the host (see “[Connect the SD62 to a Host Device](#)” on page 8).
- 2 Connect an Intermec scanner to the SD62 (see “[Connect an Intermec Scanner to the SD62](#)” on page 12).
- 3 Run an application that can accept bar code information from your SD62 (e.g., Microsoft® Notepad).

- 4 Scan the following bar codes to display the information:

Get firmware version - Base station



Get sub-system versions - Base station



To get version information using EasySet

- 1 Connect your SD62 to the host (see **“Connect the SD62 to a Host Device” on page 8**).
- 2 Follow the procedure for online setup with EasySet (see **“Online Setup with EasySet” on page 24**).
- 3 When the base is connected to EasySet, open the **Configuration modes and utilities** section in the EasySet commands window.
- 4 The current firmware and sub-system appear in blue next to the **Get firmware version** and **Get sub-system versions** commands.

Upgrade the System Firmware

Upgrade the base station firmware and/or the scanner firmware (through the base station) to keep your products in good working order. When you upgrade the firmware the current settings are erased and replaced with the default settings.

To upgrade the firmware you need:

- a USB or RS-232 cable and power supply if necessary
- a host PC running Microsoft® Windows® XP with SP2, Microsoft Windows 2000 with SP4, or a more recent version of Microsoft Windows
- the latest version of EasySet (includes the WinFlash firmware upgrade utility) installed on the host PC (available at www.intermec.com/EasySet)
- the latest firmware update file

- if upgrading scanner firmware, you must have a connected Intermec scanner and it's Bluetooth address



Note: Scanner firmware upgrade through the base station is not possible with the following Intermec scanners:

- SF51 Cordless Scanner (all models)
- SR61B Cordless Scanner (legacy models only, see the following part numbers)
SR61BEXXXX
SR61BAXXXX
SR61BLXXXX
SR61BVXXXX

If using one of these scanner, see your scanner documentation for firmware upgrade instructions.

Download the Latest Firmware Version

Download the latest firmware file (.bin) from the Intermec website at www.intermec.com.

To download the latest firmware file from the website

- 1 Go to **Support > Downloads**.
- 2 From the **Product Category** drop-down list, choose **Bar Code Scanners**.
- 3 From the **Product Family** drop-down list, choose the product family for your base station or scanner
- 4 From the **Product** drop-down list, choose your product and click **Submit**.
- 5 Click the link to download the firmware upgrade package and save firmware upgrade file (.bin) to your PC.

Upgrade the Base Station Firmware

Upgrade the SD62 base station firmware using WinFlash. If WinFlash is not already installed you can install it from EasySet.

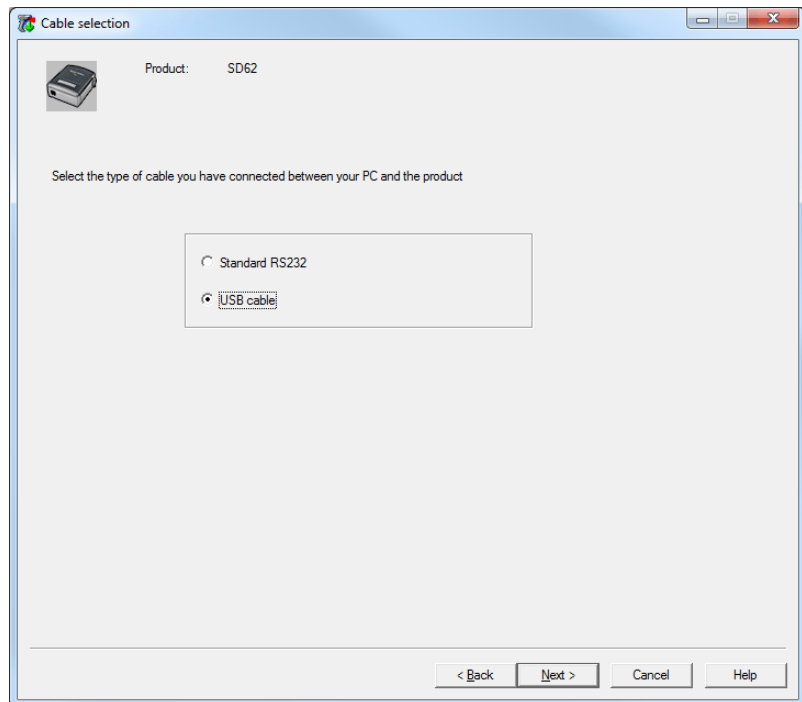
To upgrade the SD62 firmware

- 1 Start the latest version of EasySet and select the **SD62SYS** product if it is not already selected.
- 2 From the **Tools** menu, select **Upgrade product firmware** to start WinFlash.

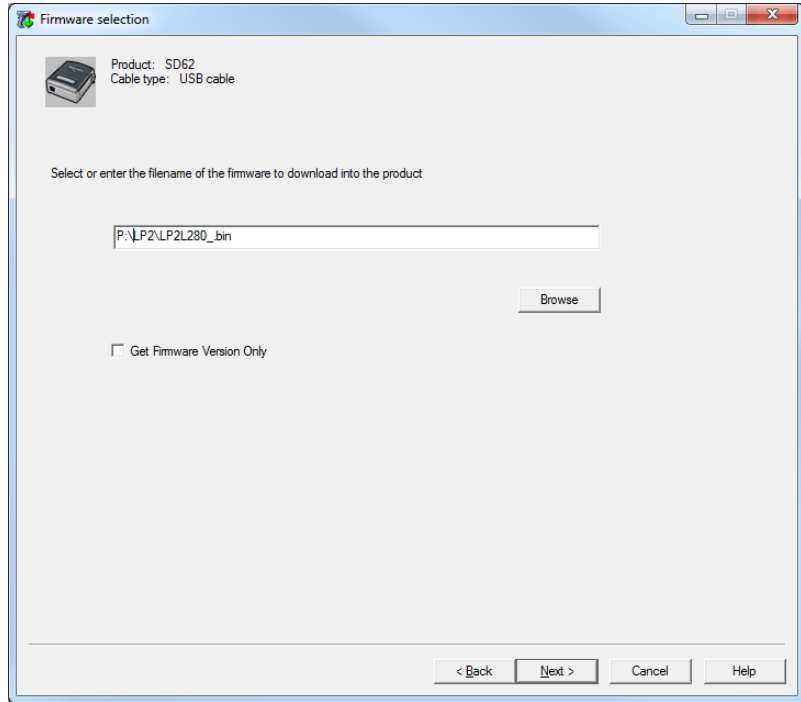
If WinFlash is not already installed you will be asked to install it - click **Yes** and follow the installation instructions.

If you are connected to EasySet for online setup, a message will ask if you want to quit online setup mode and start WinFlash.exe. Click **Yes** to continue. If you have a scanner connected to the base station, the base disconnects (the blue Intermec Ready-to-Work indicator goes off) and then restarts (2 beeps one green flash). The scanner will then reconnect with the base.

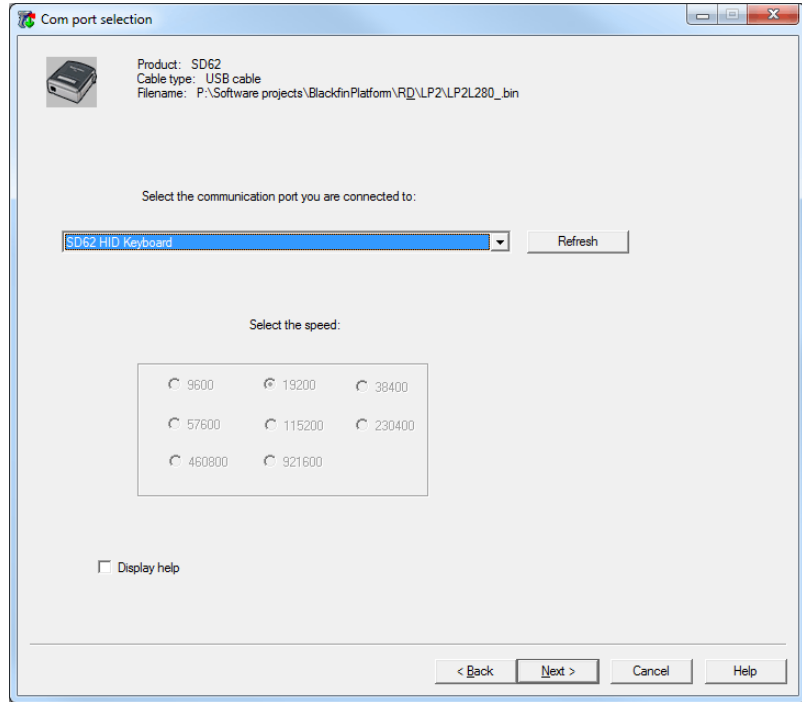
- 3 Select the type of cable you are using and click **Next**.



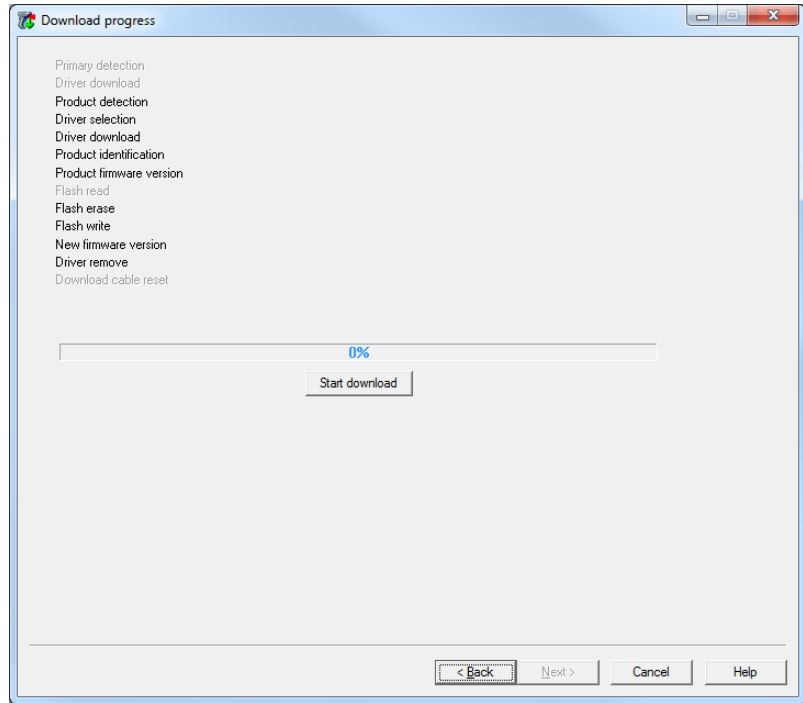
- 4** Click **Browse** to find the correct **.bin** firmware upgrade file you downloaded for your product model and click **Next**.



- 5 In the dropdown list, select the communication port you are connected to. Click **Next**.



6 Click Start download.



During firmware download the SD62 status light blinks red slowly. When the download is complete the base emits a series of beeps and green light flashes. It then restarts - if you have a connected scanner, this disconnects the scanner). When powered back up the base emits 2 beeps and the status light flashes green one time. If a connected scanner was disconnected it will now reconnect.

7 Click Finish. You have successfully upgraded your base station firmware.

Upgrade Scanner Firmware

You can use WinFlash to upgrade the firmware of a connected Intermec scanner through the SD62 base station. After a firmware upgrade, you will need to reestablish Bluetooth communication between the scanner(s) and the SD62 base station.



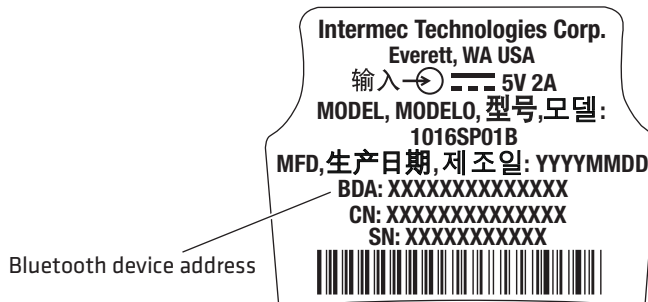
Note: Scanner firmware upgrade through the base station is not possible with the following Intermec scanners:

- SF51 Cordless Scanner (all models)
- SR61B Cordless Scanner (legacy models only, see the following part numbers)
SR61BEXXXX
SR61BAXXXX
SR61BLXXXX
SR61BVXXXX

If using one of these scanner, see your scanner documentation for firmware upgrade instructions.

Scanner Bluetooth Device Address (BDA)

Before starting the scanner firmware upgrade procedure you must be sure to have the Bluetooth device address (BDA) of your scanner(s). This is indicated on the product label



Example Product Label with Bluetooth Device Address

If for some reason you cannot find the BDA on the product label, you can read the following bar code to retrieve the information from the scanner. Make sure your scanner is connected to the base station and you have an application open that can accept bar code information.

Get scanner Bluetooth device address



Scanner Firmware Upgrade Procedure

Now that you have the scanner BDA, you can start the scanner firmware upgrade procedure.

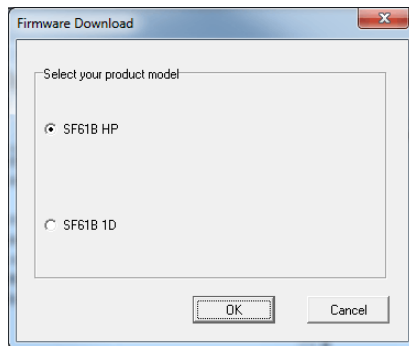
To upgrade the scanner firmware

- 1** Start the latest version of EasySet and select your scanner product if it is not already selected.
- 2** From the **Tools** menu, select **Upgrade product firmware** to start WinFlash.

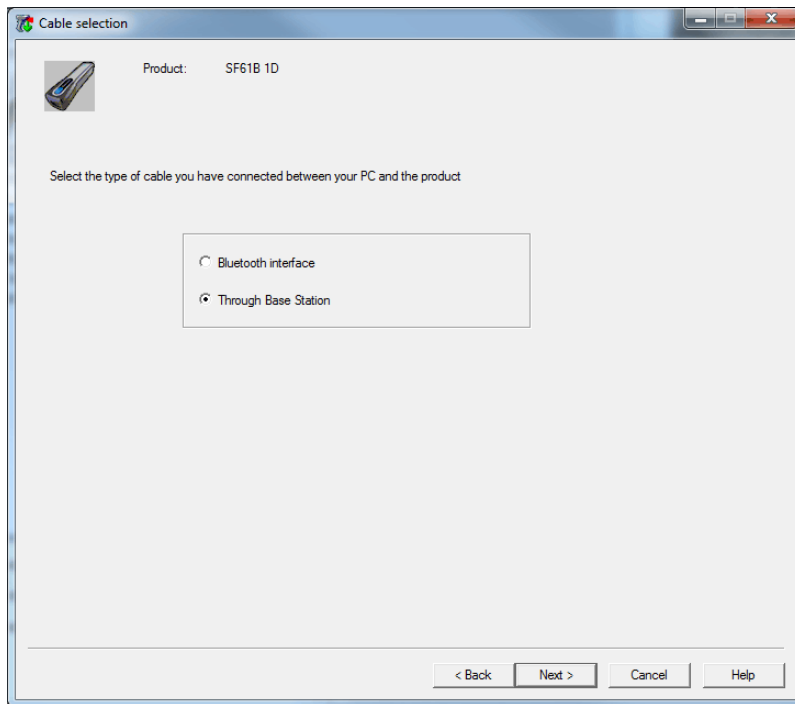
If WinFlash is not already installed you will be asked to install it - click **Yes** and follow the installation instructions.

If you are connected to EasySet for online setup, a message will ask if you want to quit online setup mode and start WinFlash.exe. Click **Yes** to continue. If you have a scanner connected to the base station, the base disconnects (the blue Intermec Ready-to-Work indicator goes off) and then restarts (2 beeps one green flash). The scanner will then reconnect with the base.

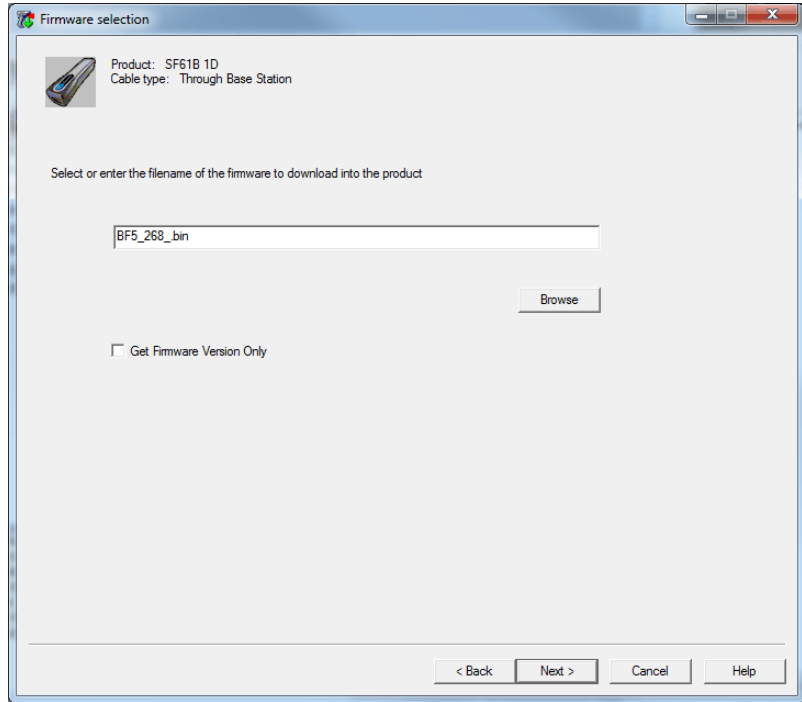
- 3** Select your product model and click **OK**.



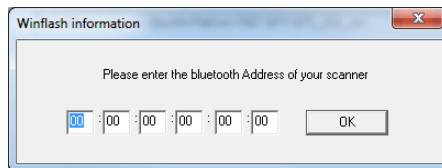
- 4** Select **Through Base Station** in the cable selection window. Click **Next**.



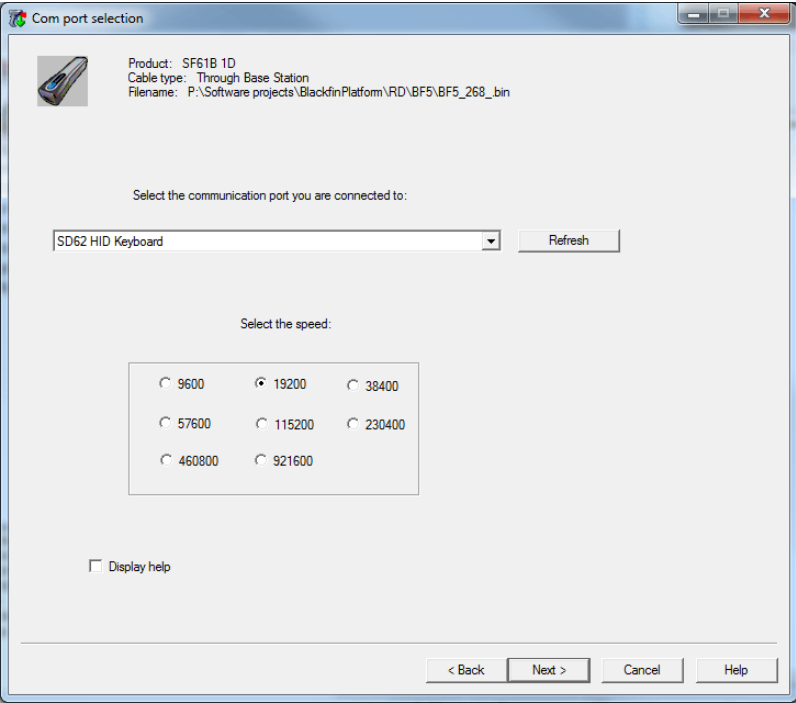
- 5 Click **Browse** to find the correct **.bin** firmware upgrade file you downloaded for your product model and click **Next**.



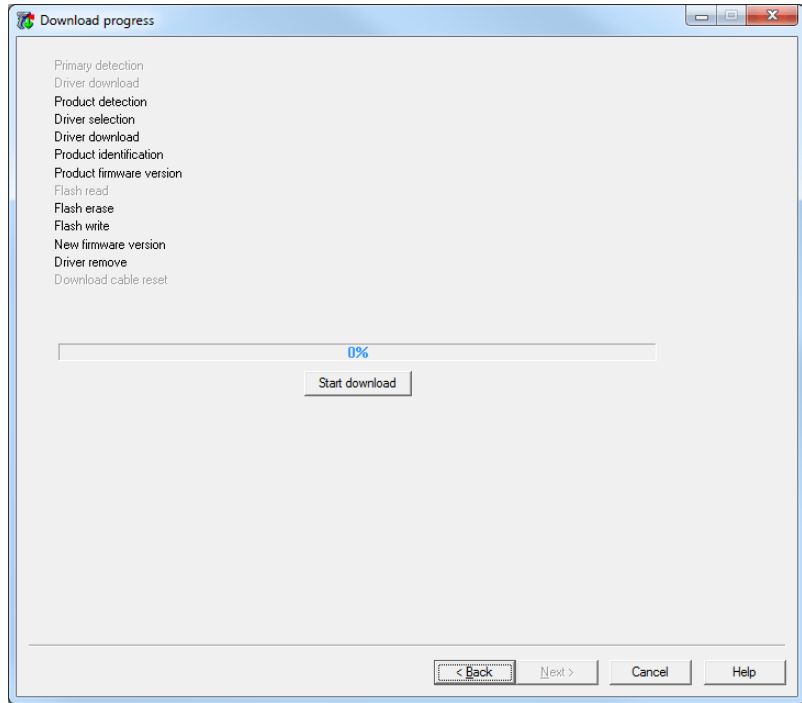
- 6 Enter the Bluetooth address of the scanner you want to upgrade. If you don't know where to find this information, see **“Scanner Bluetooth Device Address (BDA)” on page 38**. Click **OK**.



- 7** In the dropdown list, select the communication port you are connected to (SD62). Click **Next**.



8 Click Start download.



The scanner disconnects from the base station and starts blinking red. The base station status light blinks orange. This indicates they are preparing for firmware download. When the download start, the scanner status light slowing blinks red and the base station's status light stays on orange until the process is finished.

When finished successfully, the scanner emits a series of beeps and the status light flashes green. The base station and scanner restart.

You will need to re-establish a Bluetooth connection between the scanner and the base.

9 Click Finish. You have successfully upgraded your scanner's firmware.

A

Specifications

This appendix provides the specifications for the SD62 base station.

SD62 Specifications

Physical Dimensions	
Height	3.6 cm (1.4 in)
Width	10.2 cm (4.0 in)
Depth	11.5 mm (4.5 in)
Weight	< 150 g (5.29 oz.)

Electrical Specifications	
Operating voltage	nominal 5V +/- 10%
Operating current	160 mA

Interfaces	
RS-232, USB (HID keyboard, virtual COM, HID POS, IMB POS), Keyboard Wedge, Wand Emulation	

Temperature and Environmental Specifications	
Operating	-20°C to 45°C (-4°F to 113°F)
Storage	-40°C to 70°C (-40°F to 158°F)
Relative humidity	5 to 95% non-condensing
Drop shock	26 drops from 1.2 m (3.9 ft.) on concrete
Vibrations	8G, from 10Hz to 500Hz, 2hr/axis, 3 axes

Bluetooth Radio	
Radio type	Bluetooth Class 1 version 2.1 + EDR
Superior radio performance	110 dB link budget provides 1000+ meter line-of-sight connectivity
Frequency	2402 - 2480 GHz

Bluetooth Radio

Communication range	100 meters (328 feet)
Bluetooth connections	Maximum 7 scanner connections

Certifications

UL, cUL, CE, FCC, IP53



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SD62 Base Station User's Guide



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